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PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Jiangchun Xu and John A. Stolk  
Application No. : 09/820,089  
Filed : March 27, 2001  
For : COMPOSITIONS AND METHODS FOR THE THERAPY AND  
DIAGNOSIS OF OVARIAN CANCER

Art Unit : 1614  
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Commissioner for Patents  
Washington, D.C. 20231

DECLARATION

Sir:

I, Monica Steinborn, in accordance with 37 C.F.R. § 1.821(f) do hereby declare that, to the best of my knowledge, the content of the paper entitled "Sequence Listing" and the computer readable copy contained within the floppy disk are the same.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated this 10<sup>th</sup> day of July, 2001.

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09/820,089-071001



EXPRESS MAIL NO: EL773186662US

## SEQUENCE LISTING

<110> Xu, Jiangchun  
Stolk, John A.

<120> COMPOSITIONS AND METHODS FOR THE THERAPY  
AND DIAGNOSIS OF OVARIAN CANCER

<130> 210121.509

<140> US 09/820,089

<141> 2001-03-27

<160> 35

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<210> 1

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cacaagtcta gaatgtgatt aagctacaaa tctaagtatt cacagatgtg tottaggctt 240
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taaattctag cagagtaaac gattccaact agaatgtctg tatatccata tggcacattt 420
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<211> 1929

<212> DNA

<213> Homo sapiens

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actccacatg gagaggcaac catgtctgga agtgactatg cctgagtccc aggggtgcggc 180
aggtaggaaa cattcacaga tgaagacagc agattcccca cattctsayc tttggcctgt 240
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tcctcagtea tcaatagtgc ctggggaaaa acagagctgg tagacttgaa gaggagcatt 360
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09820089-071001

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<212> DNA
<213> Homo sapiens
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<222> (1)...(102)
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<223> n=A,T,C or G

<400> 4

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atctagaaac tgagttgygg agctgactct aatcaaagt gatgattgga attagaccat 180
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tgcttctgtt attattccaa gactggagat aggcagggtt aaaaagggtat tattatTTTT 360
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tccaatgctt gttcmctgtt cctctgtcat actgtatctg gaatgctttg taatacttgc 540
atgcttctta gaccagaaca tgtagggtccc cttgtgtctc aagacttttt ttttcttaat 600
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<210> 5

<211> 360

<212> DNA

<213> Homo sapiens

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aagacctttg agcaagaaag taccctggaa caacccaatt tggactgcaa gtattagttg 180
ggtcttccag gtgcctctca cagcagcagt catggcagca gtgactctag ccatgtccat 240
gaccaactgc tgcataacaa atagccccga gactcagcag cttacaacag ggtccccagc 300
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<210> 6

<211> 122

<212> DNA

<213> Homo sapiens

<400> 6

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acttagtttt tatctttgac caaccgaaca tgaccaaaaa ccaaaagtgc attcaacctt 120
ac 122
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<210> 7

<211> 403

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<213> Homo sapiens

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<223> n=A,T,C or G

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tctttcatat ctttatattg aaatatgggc tttacttcaa tttgaaggtc tttcatgaac 180
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aataaaaagag agtagaagga ctgtctgaga aggcaggaga catataaaac agatgactga 240
aagactgact agctcctgga aagggaaca tttggaacat ccagagtaag ggcaaatggg 300
cttctaccag cacaacaaan agcctccagg tggcaacatg gaagcagggtt atcagagaaa 360
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<210> 8
<211> 314
<212> DNA
<213> Homo sapiens

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<223> n=A,T,C or G

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naanaggatt tgctaataaa acttaagttt tgaaaattaa natgcaggta gtgcttntga 180
actaatgccc acagctccaa ggaanacatg tcctattttag ttattcaaat acaagttgag 240
ggcattgnga ttaancaaac aatatatttg ttanaacttt gtttttaaan tactgntcct 300
tgacattact tata 314

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<210> 9
<211> 451
<212> DNA
<213> Homo sapiens

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cccacaaact ctgaagccag tgtctagctt actaaaaaaa gagttgtata taatatattaa 120
gatgctgagt atttcatagg aaagctgaat gctgctgtaa agtgctcttt aagtcttttt 180
tttttttaact ccccttctaa tgaatgaaac taggggaatt tcaggggaca gagatgggat 240
ttgttgatg ataaactgta tgtagttttt agtctttctg ttttgagaag cagtgggttg 300
ggcattttta agatggctgg ctactcttgt ttccctcoat gataataaat ttgtcataac 360
tcagtaacat gaacttgccc ctagaggtag ttgttaataa ttttgaaata ttaaggtcct 420
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<210> 10
<211> 595
<212> DNA
<213> Homo sapiens

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tttatgacga cagcttggtt tgggtgcagt ttgggtctgg ctttacgaag atggcgaccg 180
taacactcct tagaaactgg cagtcgtatg ttagtttcac ttgtctactt tatatgtctg 240
atcaatttgg ataccatttt gtccagatgc aaaaacattc caaaagtaat gtgttttagta 300
gagagagact ctaagctcaa gttctggttt atttcatgga tggaatgtta attttattat 360
gatattaaag aaatggcctt ttattttaca tctctccctt ttttcccttt ccccttttat 420
tttctcctt ttctttctga aagtttctt ttatgtccat aaaatacaaa tatattgttc 480
ataaaaaatt agtatccctt ttgtttggtt gctgagtcac ctgaacctta attttaattg 540
gtaattacag cccctaaaaa aaacacattt caaataggct tccactaaa ctcta 595

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accccttttc	tcagatttga	cctagaattc	ccagcccaaa	tcataattt	cttagctcta	240	
atacgaattt	tcattgttga	caaaaaccta	gctacaaatg	ggttttctatg	gaactttctaa	300	
ttaatgtgca	aaatacatat	tttctccagg	ttaagaaatt	ttaagtcaga	tcattgtgac	360	
acaataagaa	aatttgtttg	tgtaattcat	tgacctcttc	cttccaaaat	aacatcaagt	420	
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aagaataaaaa	ttcattgtcg	taaaaaaaaa	aaaaaaaaa			518	

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ggctttttct	tccttttctt	actcctgttt	tttccactca	ctcttcccaa	gagatttct	180
aaagcttcaa	gcttaataag	cctaataagt	aaaaataact	gaatttaatg	gtataatgaa	240
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<400>	13						
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gagaaagc	gtgtgtgg	tcctgca	tgctctgg	agaggggag	ccgcgggcc	180	
atcggcag	tcgggccaa	gggtattc	ggagaagac	gctaccgag	ctatcctgg	240	
gatgaggg	gacccggt	gcgtggtc	cctggtgt	acggcactc	aggtttcc	300	
ggctgccc	gccagagag	cctgagccc	ccggtcct	tttttatga	ctcaccgtc	360	
cctcagccc	tgatcagtc	ctggttct	agcagaacc	cacggtcac	gaccgcgtc	420	
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$\langle 210 \rangle$	14
$\langle 211 \rangle$	392

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(338)  
<223> n=A,T,C or G

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tagaagaggc gcctgtgttg atgcactacc cccgaggcat cccgccccag agccagatgg 180  
ctgtgggcca ggaggtgttt gggctgcttc ctgggctcat gctgtatgcc acgctctggc 240  
tacgtgagca caaccgtgtg tgtgacctgc tgaaggctga gcaccccacc tggggcgatg 300  
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<211> 353  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(333)  
<223> n=A,T,C or G

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tcgcttatgg agaccaccaa tcacctaata cagccattac tcagatgact tttttgcgcc 180  
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tggacgatca agctaagaac ctcaaaaaag ctgtggttct caaaggggca aatgacttag 300  
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<211> 487  
<212> DNA  
<213> Homo sapiens

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tcaccactgt tatattacct tctccaggaa ccctccagtg gggaaggctg cgatattaga 180  
tttccttgta tgcaaagttt ttgttgaaag ctgtgctcag aggaggtgag aggagaggaa 240  
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aaacttctct gcagtatctg gcttgtccat ctggtctaag gtggtgctt cttccccagc 360  
catgagtcag tttgtgcccc tgaataatac acgacctgtt atttccatga ctgctttact 420  
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aaaaaaa 487

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<211> 226  
<212> DNA

030009-01001

<213> Homo sapiens

<400> 17

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aaaataaaca tctcaccaca aactacagtg tcagctcttt aataaatata taaaacagaa 180
gttagtagtc aatcagagtt atatgaacag gggtcatagg tatatt                226
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<210> 18

<211> 610

<212> DNA

<213> Homo sapiens

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<221> misc\_feature

<222> (1)...(586)

<223> n=A,T,C or G

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aatattacat ggaactgtca tagttagggt ttgcagcatc ttacatgtct tgtatcaatg 180
gcaggagaaa aatatgataa aaacaatcag tgctgtgaaa aacaactttc ttctagagtc 240
ctcttacttt ttattcttct ttatcatttg tgggtttttc ccccttggct ctgatcactt 300
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tgaaataatt gttcagctat ctgggcagct gttaatgtaa acctgagagt aataacacta 420
ctcttttatc tacctggaat acttttctgc ataaaattta tctttgtaag ctaactctat 480
taatcaggtt tcttctagcc tctgcaacct acttcagtta gaattgtcta atactgctct 540
attaatcagg tttctagcct ctacaaccta cttcagttaa aattgnctaa tacagcaata 600
tttaaaaaaa                610
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<210> 19

<211> 362

<212> DNA

<213> Homo sapiens

<400> 19

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agcaaacctc ttccctcaaa caagtcttac gctccacatg tggcctgaca cagaggggac 240
ttttaatgtt gaatgcctta caactgatca ttacacaggc ggcatagaag aaaaatatac 300
tgtgaaccaa tgcaggcggc agtctgagga ttccaccttc tacctgggag agaggacata 360
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<210> 20

<211> 493

<212> DNA

<213> Homo sapiens

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<221> misc\_feature

<222> (1)...(382)

<223> n=A,T,C or G

0500089-07001



<400> 20

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ggcccgaggg aacaacagaa gcggaagatc gtccctggacc cttcaggctc catgaacatc 180
tacctggtgc tagatggatc agacagcatt ggggccagca acttcacagg agccaaaaag 240
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gtgacatatg ccacataccc caaaatttgg gtcaaaagtg tctgaagcag acagcagtaa 360
tgcagactgg gtcaccaagc anctcaatga aaatcaatta tgaagaccac aagttgaagt 420
caggggacta acaccaagaa nggcctcca gcagtgtaca ncatgatgag cttggccaga 480
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493

<210> 21

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(362)

<223> n=A,T,C or G

<400> 21

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gcagtatgga gggaggattt tatggagaaa tggggatagt cttcatgacc acaataaat 180
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ttttttcagg gacttttcta gctgtatgac tgttacttga cttcttttga aaagcattcc 300
caaaatgctc tatttttagat agattaacat taaccaacat aatttttttt agatcgagtc 360
ancataaatt tctaagtcag cctctantcg tggt
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394

<210> 22

<211> 452

<212> DNA

<213> Homo sapiens

<400> 22

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gcgtgggttt ccgcgagggc acctgcgggg cccagaccca gcgcatccgg tgcagggtgc 120
cctgcaactg gaagaaggag tttggagccg actgcaagta caagtttgag aactggggtg 180
cgtgtgatgg gggcacaggc accaaagtcg gccaaaggac cctgaagaag gcgctgctaca 240
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aaggccaaag ccaagaaaag gaagggaag gactagacgc caagcctgga tgccaaggag 360
cccctgtgtc acatgggggc tgcccacgac ctccctctcc caggcccag atgtgacca 420
ccagtgcctt ctgtctgctc gttagctttt aa
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452

<210> 23

<211> 297

<212> DNA

<213> Homo sapiens

<400> 23

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caccctactg ggaactatgt taaaaaaaaa tttcaagatt taaggagat tacggtgtta 120
```

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ctatgacacc agaaaaactt agaactttgt gtgaaataga ctggctaaca ttagagggtgg 180
gttggctatc agaagaaagc ctggagaggt cccttgtttc aaaggatatg cacaaggtaa 240
cctgtaagcc aaagcaccgc gaccagtttc tatacataga cagttacagc tggttta 297

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<211> 396
<212> DNA
<213> Homo sapiens

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<222> (1)...(392)
<223> n=A,T,C or G

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ttaccacaaa tacaatttga acaatgggta ctttagagat attgctaaag ttaaccactg 180
gggtgaactaa aagatcccat agaaaatgta aagatacagg tttggcatta cagatggaac 240
actacattaa gctaatacata gtagctactg attgtgaaat tataattatg ggattatcgt 300
gcctagcata agtaatgaaa aattaagaaa agtggttaata gcagaaaaag cttgatctat 360
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<210> 25
<211> 480
<212> DNA
<213> Homo sapiens

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<223> n=A,T,C or G

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agttaagtta ttatagctat aataacatta gacaaagctg tctgcatcaa ctggattcca 180
ttgattgaag gtgttacaga tttatgacag tcaataccat ttccagtga aaacgtaagt 240
ttaccctctt tgaaataatc actgcaatgc atatgctggg aataatggaa cttcaggtat 300
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ttgtgttttc accagatgaa gaaagatttt tagtgattca ctaactgagg acaatcaaac 420
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```

<210> 26
<211> 456
<212> DNA
<213> Homo sapiens

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```

<400> 26
aaaatagcat tgcatacatg gatcaggcca gtggaaatgt aaagaaggcc ctgaagctga 60
tggggtcaaa tgaagggtgaa ttcaaggctg aaggaaatag caaattcacc tacacagttc 120
tgagggatgg ttgcacgaaa cacactgggg aatggagcaa aacagtcttt gaatatcgaa 180
cacgcaaggc tgtgagacta cctattgtag atattgcacc ctatgacatt ggtggtcctg 240
atcaagaatt tgggtgtggac gttggccctg tttgcttttt ataaaccaa ctctatctga 300

```

```

aatcccaaca aaaaaaattt aactccatat gtgttcctct tgttctaatac ttgtcaacca 360
gtgcaagtga ccgacaaaat tccagttatt tatttcctaaa atgttttgaa acagtataat 420
ttgacaaaga aaaatgatac ttctcttttt ttgctg 456

```

```

<210> 27
<211> 320
<212> DNA
<213> Homo sapiens

```

```

<400> 27
tttttttttt tttttttttt aggaaatcac atttgtatta gcaatatttt agccagtact 60
ttctgcatct agattttatt cctttatgat cattaagatt ctacacctaaa caagctgcc 120
aaatacatta cctctgattt tatttagatt ctaaaagtta ggatacaaaa agcacataaa 180
catctacaag taccaaaaaca tttatgacct tataatttta tagtgcaaga aaaaggacaa 240
agacaggaat acaataaat tataatctaa agagttacat ataaaatgtc cttgattatt 300
tgttaaaatc tgctagaaaa 320

```

```

<210> 28
<211> 331
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(58)
<223> n=A,T,C or G

```

```

<400> 28
tctccatttg gtacaatcac tagtgcaaag gttatgatgg aggggtggctg cagcaaangg 60
tttggttttg tatgtttctc ctcccagaa gaagccacta aagcagttac agaaatgaac 120
ggtagaattg tggccacaaa gccattgtat gtagcttttag ctacagcgaa agaagagcgc 180
caggctcacc tcactaacca gtatatgcag agaatggcaa gtgtacgagc tgttcccaac 240
cctgtaatca acccctacca gccagcacct ccttcaggtt acttcatgge agctatccca 300
cagactcaga acccgtgctg catactatcc t 331

```

```

<210> 29
<211> 394
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(30)
<223> n=A,T,C or G

```

```

<400> 29
gtgtcctccg cccgctttgt gtccctegtn tnotcggggg gctacggcgg cggctacggc 60
ggcgtcctga ccgctgccga cgggctgctg gcgggcaacg agaagctaac catgcagaac 120
ctcaacgacc gcctggcctc ctacctggac aagggtgcgc ccctggaggc ggccaacggc 180
gagctagagg tgaagatccg cgactggtac cagaagcagg ggccctgggc ctcccgcgac 240
tacagccact actacacgac catccaggac ctgcgggaca agattcttgg tgccaccatt 300
gagaactcca ngattgtcct gcagatcgac aacgcccgtc ttggcttgca gaatgacttc 360
cgaaccaagt ttgagacgga acaggctcct gcgc 394

```

<210> 30  
 <211> 295  
 <212> DNA  
 <213> Homo sapiens

<400> 30  
 gcaaagcctg agtcctgtcc tttctctctc cccggacagc atgagcttca ccaactcgctc 60  
 caccttctcc accaactacc ggtccctggg ctctgtccag gcgccagct acggcgcccg 120  
 gccggtcagc agcgcgccca gcgtctatgc aggcgctggg ggctctggtt cccggatctc 180  
 cgtgtcccg cccaccagct tcaggggcgg catggggctc gggggcctgg ccaccgggat 240  
 agccgggggt ctggcaggaa tgggaggcat tcagaacgag aaggagacca tgcaa 295

<210> 31  
 <211> 399  
 <212> DNA  
 <213> Homo sapiens

<400> 31  
 gcgcgtctg cctgccgcct gcctgcctgc cactgagggt tcccagcacc atgagggcct 60  
 ggatcttctt tctcctttgc ctggccggga gggccttggc agccctcag caagaagccc 120  
 tgctgatga gacagaggtg gtggaagaaa ctgtggcaga ggtgactgag gtatctgtgg 180  
 gagctaattc tgtccaggtg gaagtaggag aatttgatga tgggtgcagag gaaaccgaag 240  
 aggaggtggg ggcggaataa cctgtccaga accaccactg caaacacggc aagggtgtgcg 300  
 agctggatga gaacaacacc cccatgtgcg tgtgccagga cccaccagc tgcccacccc 360  
 cattggcgaa tttgaaaaag gtgtgcagca aatgacaac 399

<210> 32  
 <211> 476  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(61)  
 <223> n=A,T,C or G

<400> 32  
 tttttttttt tttttatattt caaatgtgaa atcatgtcaa cattttaatc caaactcaat 60  
 ntatttaaca cacatatatta agaggcttac tacatcatgc aattggatta gaacaccttt 120  
 acaatcctat gaagagagta cagtgcagaa aagtcataac tttacattaa ccaacaaaat 180  
 cttagcaatt atatttttagt cttacatcac tacagggttt aaaagtgatc gctgcaaaat 240  
 cagattttta aaatatcttc cacaatcatg atttttgtcc ttcactgntc aagtaaaatc 300  
 ttgtgtcatc cagttgcaaa atcttattat tgataacacg tatacgtgta tacaaccac 360  
 actgcaaat aacaaaagaa ttgtcccagt caggctgaca aagtttaata aaggacact 420  
 tctaattctaa tcatttcatc ttggaagtaa tattggtatt ctctaccatc tattca 476

<210> 33  
 <211> 349  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(214)

<223> n=A,T,C or G

<400> 33

```
cgaaaaactt cgaggaattg ctcaaagtgc tgggggtgaa tgtgatgctg aggaagattg 60
ctgtggctgc agcgtccaag ccagcagtgg agatcaaaca ggaggagac actttctaca 120
tcaaaacctc caccaccgtg cgcaccacag agattaactt caaggttggg gaggagtgtg 180
aggagcagac tgtggatggg aggcctgtga agancctggg gaaatgggag agtgagaata 240
aaatggctctg tgagcagaaa ctctgaagg gagaaggccc caagacctct ggaccagaga 300
actgaccacc atggggaact gatcctgacc ttacggcgga tgacgttgt 349
```

<210> 34

<211> 323

<212> DNA

<213> Homo sapiens

<400> 34

```
gaaagcagtg tcaagacagt aaggattcaa accatttgcc aaaaatgagt ctaagtgcac 60
ttactctctt cctggcattg attggtggta ccagtggcca gtactatgat tatgattttc 120
ccctatcaat ttatgggcaa tcatcaccaa actgtgcacc agaatgtaac tgccctgaaa 180
gctaccaag tgccatgtac tgtgatgagc tgaaattgaa aagtgtacca atggtgcctc 240
ctggaatcaa gtatctttac cttaggaata accagattga ccatattgat gaaaaggcct 300
ttgaaaatgt aactgatctg cag 323
```

<210> 35

<211> 301

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(75)

<223> n=A,T,C or G

<400> 35

```
aaaaagtgag tactgtggat atttaaaata tcacagtaac aagatcatgc ttgttcctac 60
agtattgagg gccanacact taagtgaag cagaagtgtt tgggtgactt tcctacttaa 120
aattttggtc atatcatttc aaaacatttg catcttgggt ggctgcatat gctttcctat 180
tgatcccaa ccaaatctta gaatcacttc atttaaaata ctgagcggta ttgaatactt 240
cgaagcagaa caggcaatgt gcagccctca tttatgagaa aaccctcagg aaactcccag 300
g 301
```